

Miniflex[®] Riser Cable



Features & Benefits

- UL 1651 Riser Rated
- UV Stable, Lightweight and High Crush Resistance
- Available in O.D. of 2.2 mm (1-4 fibers); 3.0 mm (1-12 fibers) and 4.3 mm (24 fibers)
- Miniflex[®] Technology for 5x Diameter operating Bend Radius
- Best-in-class push/pull and blow-ability
- ITU-T G.657 A1 & G657A2 optical fiber
- Loose tube cable design
- Dry construction (no gel)
- Can be terminated with QuikPush[®] cable assemblies (Balistix SC and LC connectors, and other industry standard connectors)
- Ultra-flexible, small bend radius for compact slack fiber storage
- Pushable / Pullable / Blowable fiber for routing into building ducts and conduits
- Small and unobtrusive enough for surface mount applications
- Tough enough for clipping, tacking and gluing



Overview

Miniflex Riser Cable is a tough and lightweight optical fiber loose tube cable, available with up to 12 optical fibers. Starting at just 2.2mm outer diameter, the riser cable is a ruggedised, ultra-flexible drop cable solution for pushing and pulling inside raceways and microducts. The Miniflex Riser Cable fully conforms with the UL 1651 standard for a riser cables. Because of the Miniflex grooving technology this ruggedized lightweight fiber cable is ultra flexible and won't easily kink like many fiber cables. No specialist installation tools are required to push/pull the Miniflex riser cable through FTTx microducts. The cable can be pushed by hand in excess of 100 m (328 ft) with up to 8 x 90° bends in the route.

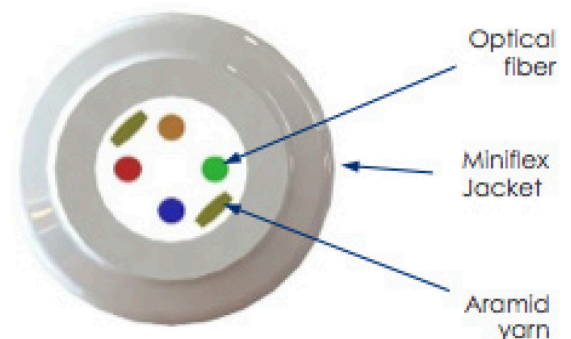
Applications

- FTTH/FTTX indoor and outdoor
- MDU and rural broadband single-dwelling units
- Telecoms, data infrastructure and transportation

Technical Data

Transmission Performance Specification

Fiber Performance		
Type	Single-mode	
Specification	G657A1	G657A2
Max. Attenuation 1310 nm / 1550 nm	≤ 0.40 dB/km / 0.35 dB/km	
Min. Bend Radius	Attenuation dB at 1550 nm	
10 turns at 15mm	0.20	0.03
1 turn at 10mm	0.75	0.10
1 turn at 7.5mm	~	0.50



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Technical Data

Mechanical Performance Specification

Cable Dimensions		Tensile Performance	Impact Performance	Bend Performance	
Cable Jacket O.D.	Wall Thickness	Max. Install Tension	<0.05dB change	Installation Min. Bend Radius	Operating Min. Bend Radius
(mm)	(mm)	(N)	(N. m)	(mm)	(mm)
4.3	1.05	200	3	43	22
3.0	0.8	100	2	30	15
2.2	0.5	100	2	22	11

Cable Dimensions		Crush Resistance			Temperature Performance
Cable Jacket O.D.	Wall Thickness	Recoverable Jacket Damage	<0.05 dB Attenuation	Loss of Optical Signal	Operating Range
(mm)	(mm)	(N)	(N)	(N)	°C (°F)
4.3	1.05	1500	3200	>4000	-40 to 70 (-40 to 158)
3.0	0.8	1500	2900	>3400	-40 to 70 (-40 to 158)
2.2	0.5	1500	3000	>3500	-40 to 70 (-40 to 158)

Ordering Information

Fiber Type (ITU-T)	Fiber Coating	Cable O.D.	Fiber Count	Descriptive Code	Standard SKU	
					m marked (2,000 m)	ft marked (6,500 ft)
G657A1	250 µm	2.2 mm	1	MX-012-PBIO-WHT-A1-250	10-1244	10-1244FT
G657A1	250 µm	2.2 mm	2	MX-022-PBIO-WHT-A1-250	10-1299	10-1299FT
G657A1	250 µm	2.2 mm	4	MX-042-PBIO-WHT-A1-250	10-1298	10-1298FT
G657A1	250 µm	3.0 mm	1	MX-013-PBIO-WHT-A1-250	10-1310	10-1310FT
G657A1	250 µm	3.0 mm	2	MX-023-PBIO-WHT-A1-250	10-1329	10-1329FT
G657A1	250 µm	3.0 mm	4	MX-043-PBIO-WHT-A1-250	10-1246	10-1246FT
G657A1	250 µm	3.0 mm	6	MX-063-PBIO-WHT-A1-250	10-1331	10-1331FT
G657A1	250 µm	3.0 mm	8	MX-083-PBIO-WHT-A1-250	10-1332	10-1332FT
G657A1	250 µm	3.0 mm	12	MX-123-PBIO-WHT-A1-250	10-1272	10-1272FT
G657A1	250 µm	4.3 mm	24	MX-244-PBIO-WHT-A1-250	10-1494	10-1494FT
G657A2	250 µm	2.2 mm	1	MX-012-PBIO-WHT-A2-250	10-1388	10-1388FT
G657A2	250 µm	2.2 mm	2	MX-022-PBIO-WHT-A2-250	10-1473	10-1473FT
G657A2	250 µm	2.2 mm	4	MX-042-PBIO-WHT-A2-250	10-1437	10-1437FT
G657A2	900 µm	3.0 mm	1	MX-013-PBIO-WHT-A2-900	10-1338	10-1338FT
G657A2	250 µm	3.0 mm	1	MX-013-PBIO-WHT-A2-250	10-1389	10-1389FT
G657A2	250 µm	3.0 mm	2	MX-023-PBIO-WHT-A2-250	10-1474	10-1474FT
G657A2	250 µm	3.0 mm	4	MX-043-PBIO-WHT-A2-250	10-1439	10-1439FT

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